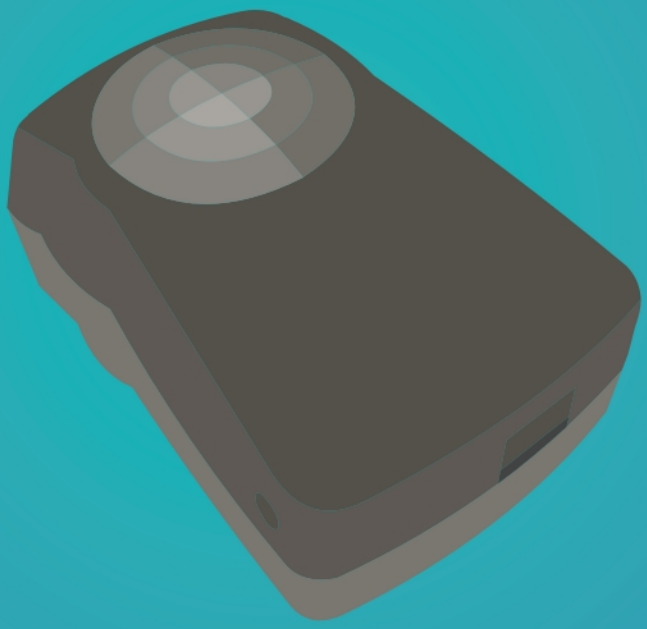
DeluoGPS™

Quick Start Guide

Deluo Bluetooth GPS



Contents

Contents 2

Minimum system requirements 3

Things to remember 3

Charging the battery for the first time 3

Hardware description 4

Installation on a PocketPC device 8

Installation on PC 14

Frequently Asked Questions 18

Contact us 19

Minimum system requirements

Pocket PC use

- Pocket PC 2002/2003
- 16MB of RAM
- Bluetooth wireless capability

Laptop use

- Pentium II
- 64MB of RAM
- Windows 98SE, Me, 2000 or XP
- Bluetooth wireless capability

Things to remember

- When you first use the GPS, please make sure that you are outside with good view of the sky. It takes about 2-5 minutes to locate the satellites for the first time. However, it will locate much faster during the subsequent uses.
- Only one GPS application can access the GPS at one time. If you are using Deluo GPS Diagnostics Software, please quit before starting other program.
- The optimal GPS placement is either on the dash or the roof. Direct view of the sky will improve the performance.
- Deluo GPS has built-in battery to store the satellite information and GPS settings.
- Your Deluo GPS obtains information from the “free” system of 24 GPS satellites orbiting the earth. You should be able to get a position during any time of the day from any place on the surface of the earth provided you have a clear view of the sky. The number of satellites that your GPS is able to acquire (max. of 12) depends on the time of day and your location.

Charging the battery for the first time

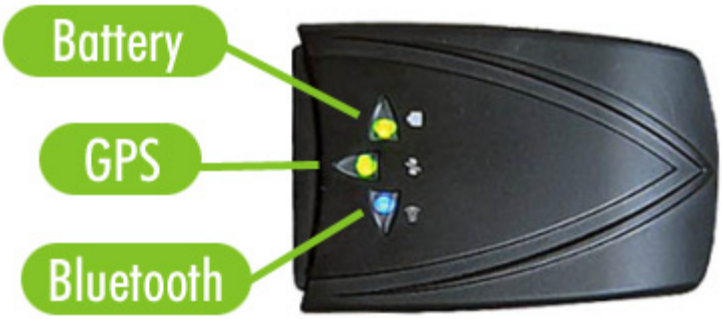
Before using your Bluetooth GPS for the first time, its internal battery should be charged for at least 8 hours. Plug the travel charger or car charger to the GPS DC jack, battery will then be charged.

Hardware description

LED Function

Deluo Bluetooth GPS PRO

Three LEDs indicate Bluetooth GPS PRO status



Battery LED:

- Red: battery charge is low
- Orange: battery is charging
- Green: battery is full or has enough charge

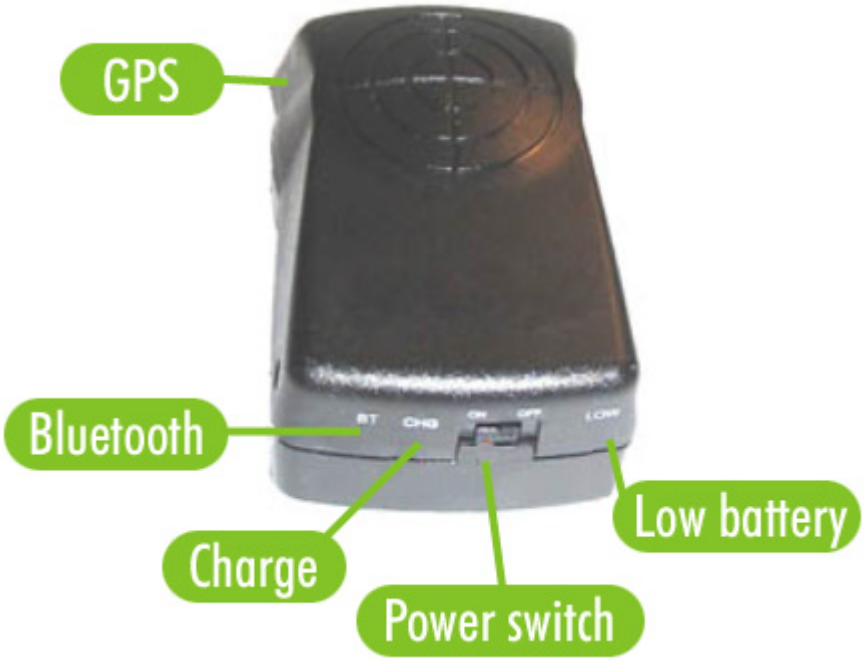
GPS LED:

- Steady: GPS receiver is turned on
- Blinking: indicates position has been fixed

Bluetooth LED:

- Fast blinking: indicates the GPS is in PAIRING state waiting to be discovered by other devices such as a Laptop or PDA
- Slow blinking: indicates the GPS is waiting for connection from another master Bluetooth device
- Steady: indicates a Bluetooth connection has been established with another device

Deluo Bluetooth GPS Lite



GPS LED

- Steady: indicates position has been fixed
- Blinking: GPS receiver is turned on

Bluetooth LED

- Blinking: indicates the GPS is waiting for connection from another master Bluetooth device
- Steady: indicates a Bluetooth connection has been established with another device

Charge LED

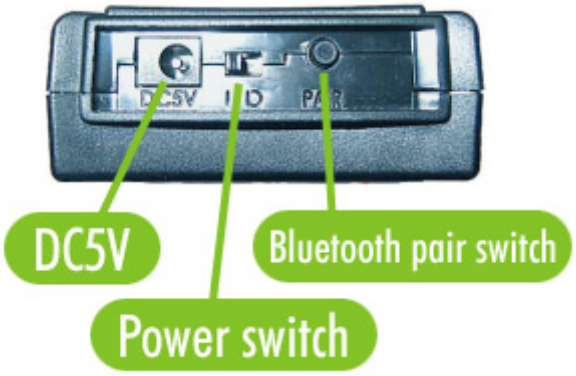
- Steady: indicates the GPS battery's are charging

Low battery LED

- Steady: indicates the battery's charge is very low and they need to be charged

Switches

Deluo Bluetooth GPS PRO



- DC5V: plug the car charger or travel charger to charge the internal battery (DV5V – 500mA)
- Power switch: turn power On or Off
- Bluetooth pair switch: this switch will enable Bluetooth pairing function (Bluetooth LED will blink quickly) **NOTE:** pairing needs to be done only once, when connecting with a Laptop or PDA for the first time. Subsequent connections do not require for the GPS to be paired again.

Deluo Bluetooth GPS Lite

- DC IN: plug the car charger or travel charger to charge the AAA batteries
- Power switch: turn power On or Off

External Antenna Connector

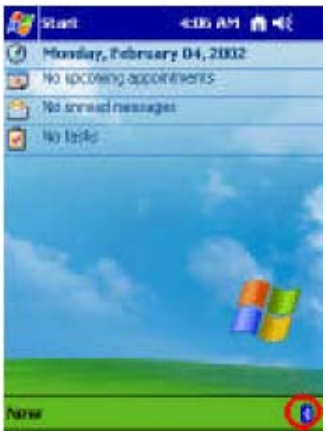
This connector is designed for external MMCX type GPS antenna.

When to use the External Antenna

When you are in a car, or any environment where the GPS signal is blocked. The external GPS antenna will help to receive better GPS signal. Please place the external GPS antenna in an outdoor open-space to ensure a better GPS performance.

Installation on a PocketPC device

1. Make sure Bluetooth is enabled on the Pocket PC. The **Bluetooth icon** should be solid blue.



2. Open Bluetooth Manager by click on **Bluetooth Manager icon**

3. Select **New** > **Connect!** to start **Connection Wizard**
4. Highlight **Explore a Bluetooth device** and click **Next**

Connection Wizard
Bluetooth
Connection Wizard
Explore a Bluetooth device
Discover the services another device offers and create connection shortcuts for them.
Connect to the Internet
Access the Internet using a network access point, a cell phone or another connected Bluetooth device.
Partner with a cell phone
Establish a partnership with a cell phone and setup the Bluetooth services it offers.
ActiveSync via Bluetooth
Cancel
Next

5. Select a **device** and click **Next**

Connection Wizard
Bluetooth Connection Wizard
Explore a Bluetooth device
Device:
<No device selected>
Tap here to choose a device
How to use this screen
To select a device, tap inside the device selection box above. After the list appears, choose a device.
Tap 'Next' to continue or 'Back' to return to the previous screen. To exit without completing the connection, tap 'Cancel'.
Cancel
Back
Next

6. Bluetooth wizard will search for available Bluetooth devices and display them on the screen
7. Click on **DeluoGPS**

8. In “Bluetooth Device Pairing” window, enter **“0000”** as a passkey and tap **Enter**.

9. Select Bluetooth available service **SPP Slave** in the Service Selection menu, and tap **Next** to continue.

10. Tap **Finish** to close the Connection Wizard program.

11. Go back to **Bluetooth Manager** again and **DeluoGPS** should be available as short cut
12. Tap and hold and choose **Connect** to establish connection

13. Bluetooth connection is completed.

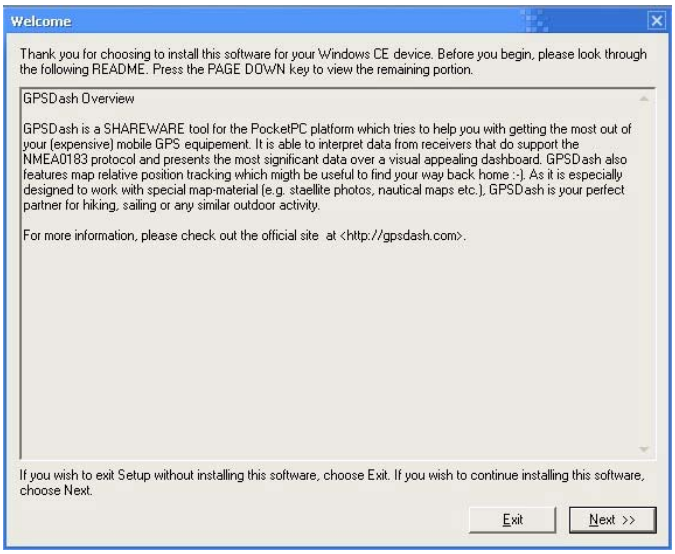
Verifying the installation

Now that the Deluo Bluetooth GPS is working, you can install the accompanying testing application to verify the GPS is working properly.

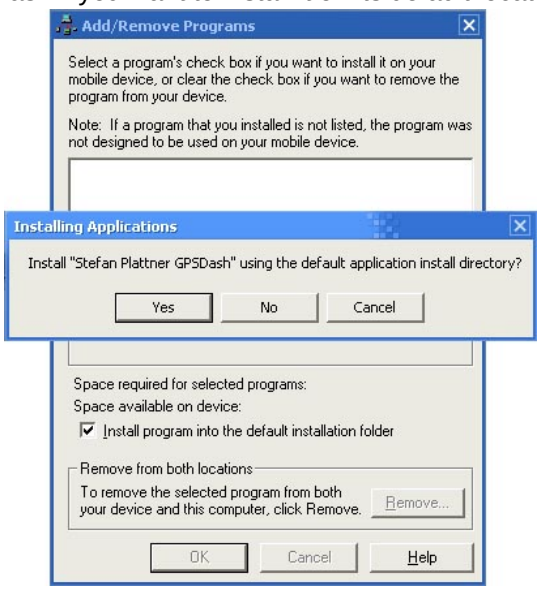
Installing GPSDash application into your PDA

Important: This step-by-step guide assumes you have Microsoft ActiveSync installed on your computer and a partnership between your PDA and your computer exists.

1. Insert the Deluo Drivers and Tools CD
2. Click on “CompactFlash GPS”
3. Click on “Install Pocket PC diagnostics software”.
4. A window asking whether you would like to Run or Save the file might appear, click **Run**.
5. A new window with a brief introduction to GPSDash software will open, click **Next**


Welcome
Thank you for choosing to install this software for your Windows CE device. Before you begin, please look through the following README. Press the PAGE DOWN key to view the remaining portion.
GPSDash Overview
GPSDash is a SHAREWARE tool for the PocketPC platform which tries to help you with getting the most out of your (expensive) mobile GPS equipement. It is able to interpret data from receivers that do support the NMEA0183 protocol and presents the most significant data over a visual appealing dashboard. GPSDash also features map relative position tracking which migth be useful to find your way back home :-). As it is especially designed to work with special map-material (e.g. staellite photos, nautical maps etc.), GPSDash is your perfect partner for hiking, sailing or any similar outdoor activity.
For more information, please check out the official site at <http://gpsdash.com>.
If you wish to exit Setup without installing this software, choose Exit. If you wish to continue installing this software, choose Next.
Exit
Next >>

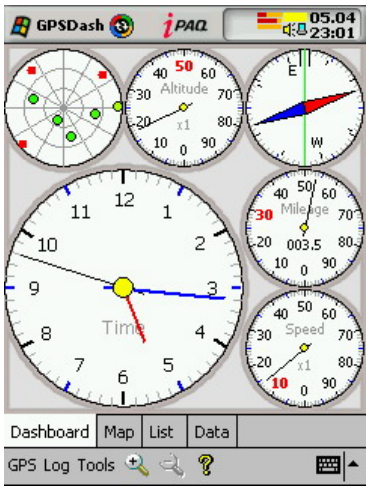
6. The ActiveSync Add/Remove programs window will be shown and the application will ask if you want to install it on its default location, click **Yes**


Add/Remove Programs
Select a program's check box if you want to install it on your mobile device, or clear the check box if you want to remove the program from your device.
Note: If a program that you installed is not listed, the program was not designed to be used on your mobile device.
Installing Applications
Install "Stefan Plattner GPSDash" using the default application install directory?
Yes
No
Cancel
Space required for selected programs:
Space available on device:
Install program into the default installation folder
Remove from both locations
To remove the selected program from both your device and this computer, click Remove.
Remove...
OK
Cancel
Help

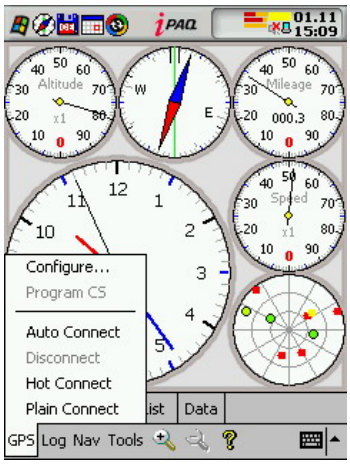
7. When the installation finishes, you will receive a notification. Click **OK**.

Application Downloading Complete
Please check your mobile device screen to see if additional steps are necessary to complete this installation.
OK

8. After having successfully completed the installation, you can start GPSDash on your PDA. Tap on Start > Programs > GPSDash. A window with gauges should appear



9. Tap on GPS menu, then on Configure



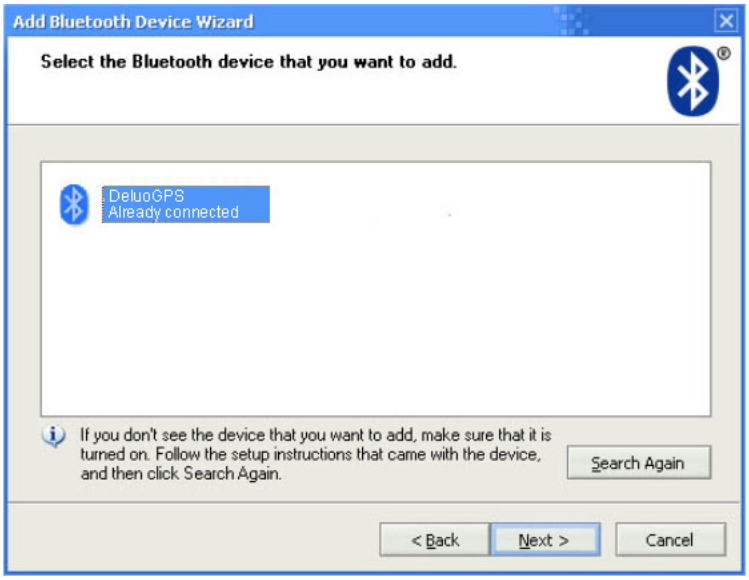
10. As GPSDash is not able to recognize the COM port where the GPS is connected to, you must select it manually. Standard COM ports for Compact Flash GPS receivers are COM2 and COM5 but that depends on your PDA hardware. You also need to specify the **Baud Rate** (4800bps), **Protocol** (NMEA) and **Receiver Chipset** (EVERMORE or unspecified). Finally, tap on **OK**

Installation on PC

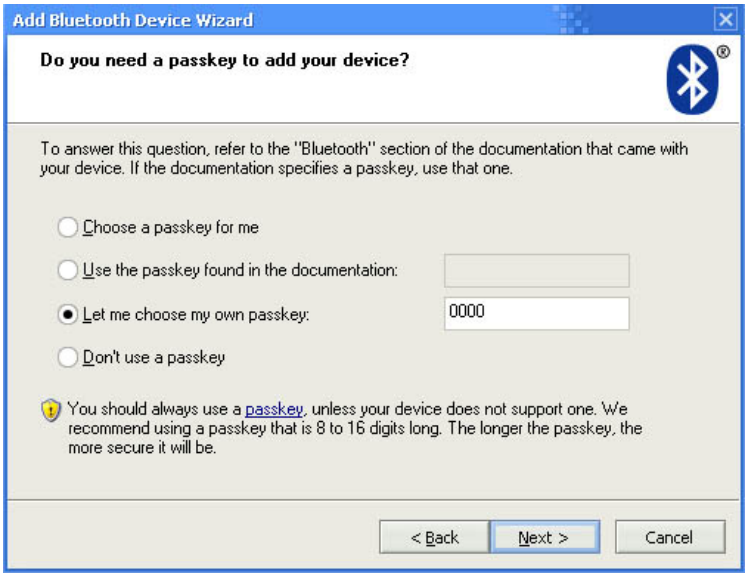
Important:

- This installation guide assumes you have a Bluetooth dongle, Bluetooth Compact Flash card or a Bluetooth enabled Laptop and the wireless connection software is properly installed and working.
- Bluetooth manager software screen may look different from manufacturer to manufacturer but the functionality should be similar. The screenshots on this guide were taken on a Laptop with Windows XP Service Pack 2 which has Bluetooth support built-in.

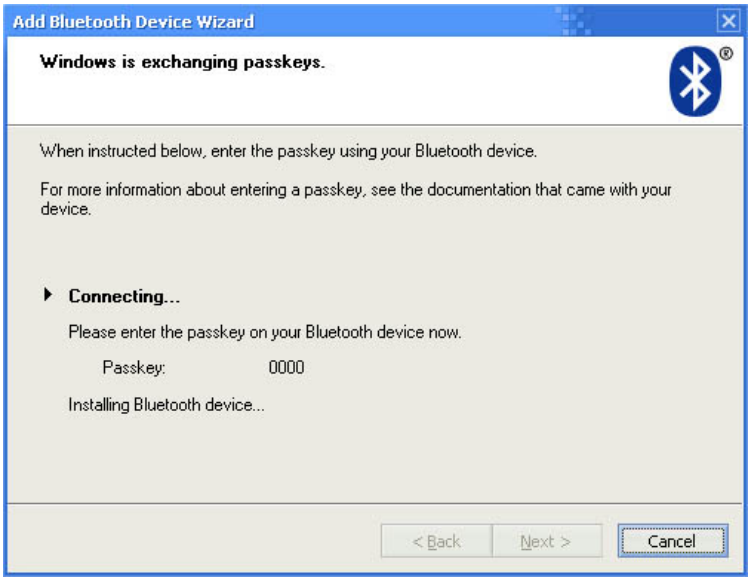
1. Open the Bluetooth Manager or Bluetooth Wizard on your Laptop.
2. Select the option to search or discover new devices (this step only needs to be done once in most Bluetooth Manager or Bluetooth Wizard applications).


Add Bluetooth Device Wizard
Select the Bluetooth device that you want to add.
DeluoGPS
Already connected
If you don't see the device that you want to add, make sure that it is turned on. Follow the setup instructions that came with the device, and then click Search Again.
Search Again
< Back
Next >
Cancel

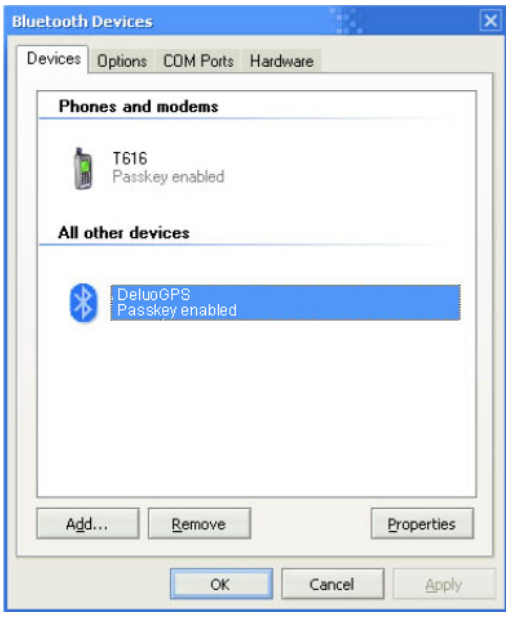
3. Select the device you want to add (DeluoGPS) and click **Next**
4. When asked for a passkey, enter **"0000"** and proceed to the next step


Add Bluetooth Device Wizard
Do you need a passkey to add your device?
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.
Choose a passkey for me
Use the passkey found in the documentation:
Let me choose my own passkey:
0000
Don't use a passkey
You should always use a passkey, unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.
< Back
Next >
Cancel

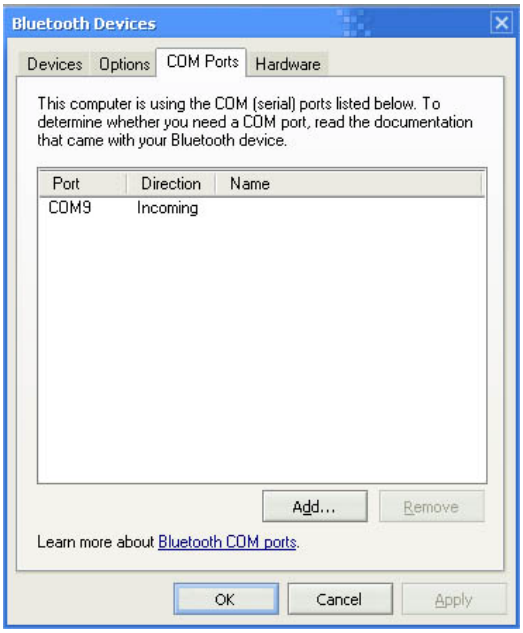
5. The Bluetooth Manager software will exchange passkeys and install Bluetooth services available on the device, in this case, **SPP Slave**


Add Bluetooth Device Wizard
Windows is exchanging passkeys.
When instructed below, enter the passkey using your Bluetooth device.
For more information about entering a passkey, see the documentation that came with your device.
Connecting...
Please enter the passkey on your Bluetooth device now.
Passkey: 0000
Installing Bluetooth device...
< Back
Next >
Cancel

6. Once the Deluo Bluetooth GPS PRO or Bluetooth GPS Lite has been found or discovered, select the option to connect to a serial port. The Bluetooth LED will become steady once a successful connection has been made. It will also be listed as an available or trusted device.
Note: Some Bluetooth Managers will need to remain open to retain a connection with a Bluetooth Device.



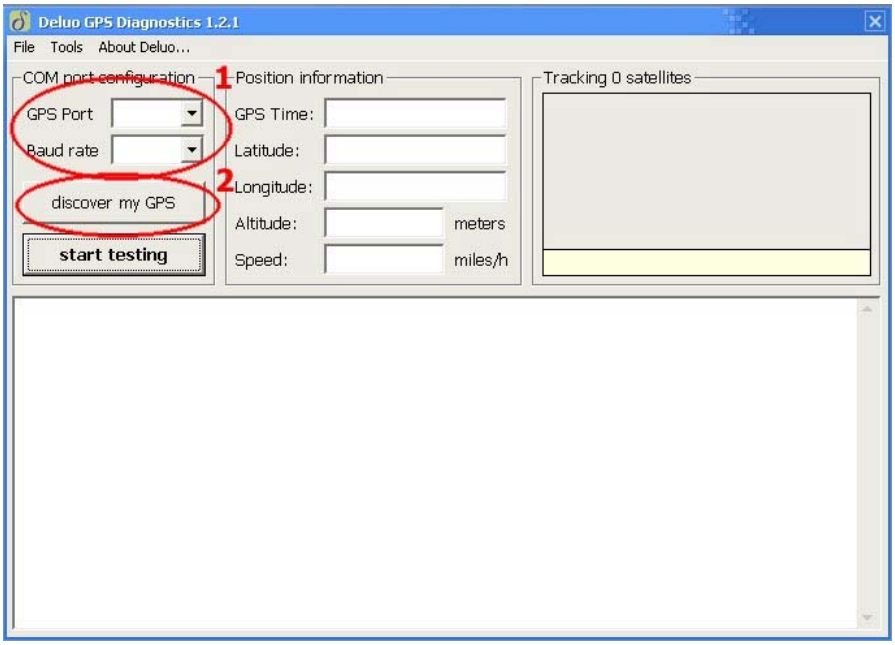
7. A serial COM port over Bluetooth connection will be assigned



8. Now you can start using your navigation software!

Verifying the installation

1. Install the Deluo GPS Diagnostics software. You can install it by inserting the Deluo Drivers and Tools CD, then click on “Compact Flash type GPS” and on the next screen, click on “Install Deluo GPS Diagnostics”.
2. Browse on the “Start > Programs > Deluo” menu for Deluo GPS Diagnostics and open the program (see figure below).
3. Please choose the COM port and baud rate from the drop-down boxes (shown as #1 below).
4. If you don’t know the COM port, click on “discover my GPS” button (shown as #2 below).
5. When the GPS is properly configured, text will appear on the large screen. The longitude and latitude will appear with a red background until the GPS acquires the satellite information (must be outdoors) then the background should become green.



Frequently Asked Questions

Q: Is Deluo GPS compatible with my mapping software?

A: Our GPS receivers are fully compatible with the NMEA 0183 sentence specification that most GPS mapping software use as their communication protocol. Please check out our web store for each product specs, there you will find the application we know that works fine with our GPS units.

Q: Where should I place my GPS? Can I use my GPS indoors?

A: GPS Satellites are like flashlights beaming down information from above. Dense objects such as metals and concrete will block the GPS satellites and create shadows devoid of any GPS signal. Metallic car roofs, struts that hold up the roof, wiper blades, etc. can prevent your GPS from getting a good reception. Reflective windshields and some tinting can also prevent your GPS from seeing the satellites above. For the best results - make sure that your GPS has a clear view of the sky. Try positioning your GPS in several places to see where you will get the best results. Generally speaking, your GPS will NOT work indoors. So go outside and have a great time!

Q: my GPS does not get a fixed position. My GPS is slow to acquire a position.

A: Factory default settings for our GPS receivers makes them to do a cold-start and reset and it might take the GPS receiver over 5 minutes before acquiring a position fix. Each subsequent start should be much faster - but please allow for up to 5 minutes for the first time out of the box.

To get a clear fix: Please make sure the GPS is located outdoors with the magnet facing down (for our mouse based GPS) or label side up for our CompactFlash GPS. It is very important that the receiver is located away from buildings or high voltage cables / installations. Severe weather and metallic objects may also hinder GPS reception.

Check to see if the red light on the side of your mouse based GPS (USB/Serial/Universal) is blinking. When you have acquired satellites, this light will become steady. For the CompactFlash GPS, please check a GPS viewer program (such as our GPS diagnostic program) to see when this GPS acquires satellites.

Important: For best and fastest results, you must be standing still for the GPS to acquire satellites. Before driving, make sure your GPS has acquired the satellites. If not, it could take up to 10-15 minutes to acquire satellites while in motion. If you are experiencing issues with the GPS fading in and out of coverage while driving, try to better position it on the dashboard or roof.

Contact us

For **sales** or pre-sales questions: sales@deluo.com

For **technical support**: support@deluo.com

For **billing** related questions: billing@deluo.com

If you want to become a **reseller**: resellers@deluo.com

En **Español**: contacto@deluo.com

Website: http://www.deluogps.com

Deluo, LLC
10084 NW 53rd Street
Sunrise, FL 33351
Fax: +1 (954) 332 0445
info@deluo.com